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### 1 [Flexible control of downloaded executable content](#)



Trent Jaeger, Atul Prakash, Jochen Liedtke, Nayeem Islam

May 1999 **ACM Transactions on Information and System Security (TISSEC)**, Volume 2 Issue 2

Publisher: ACM Press

Full text available: pdf(297.79 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

We present a security architecture that enables system and application access control requirements to be enforced on applications composed from downloaded executable content. Downloaded executable content consists of messages downloaded from remote hosts that contain executables that run, upon receipt, on the downloading principal's machine. Unless restricted, this content can perform malicious actions, including accessing its downloading principal's private data and sending messages on th ...

**Keywords:** access control models, authentication, authorization mechanisms, collaborative systems, role-based access control

### 2 [Fast detection of communication patterns in distributed executions](#)

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research CASCON '97**

Publisher: IBM Press

Full text available: pdf(4.21 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

### 3 [Application performance and flexibility on exokernel systems](#)




M. Frans Kaashoek, Dawson R. Engler, Gregory R. Ganger, Hector M. Briceño, Russell Hunt, David Mazières, Thomas Pinckney, Robert Grimm, John Jannotti, Kenneth Mackenzie

October 1997 **ACM SIGOPS Operating Systems Review , Proceedings of the sixteenth ACM symposium on Operating systems principles SOSP '97**, Volume 31 Issue

<sup>5</sup>  
**Publisher:** ACM Press

Full text available:  pdf(2.39 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)


#### 4 The performance of $\mu$ -kernel-based systems

 Hermann Härtig, Michael Hohmuth, Jochen Liedtke, Sebastian Schönberg, Jean Wolter  
 October 1997 **ACM SIGOPS Operating Systems Review , Proceedings of the sixteenth ACM symposium on Operating systems principles SOSP '97**, Volume 31 Issue


<sup>5</sup>  
**Publisher:** ACM Press

Full text available:  pdf(2.02 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

#### 5 Secure and portable database extensibility

 Michael Godfrey, Tobias Mayr, Praveen Seshadri, Thorsten von Eicken  
 June 1998 **ACM SIGMOD Record , Proceedings of the 1998 ACM SIGMOD international conference on Management of data SIGMOD '98**, Volume 27 Issue 2

**Publisher:** ACM Press


Full text available:  pdf(1.60 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The functionality of extensible database servers can be augmented by user-defined functions (UDFs). However, the server's security and stability are concerns whenever new code is incorporated. Recently, there has been interest in the use of Java for database extensibility. This raises several questions: Does Java solve the security problems? How does it affect efficiency? We explore the tradeoffs involved in extending the PREDATOR object-relational database server using Java. We ...


#### 6 Using CORBA and JDBC to produce three tier systems

 Barry Cornelius  
 April 1998 **ACM SIGPLAN Notices**, Volume 33 Issue 4


**Publisher:** ACM Press

Full text available:  pdf(748.48 KB) Additional Information: [full citation](#), [index terms](#)

#### 7 PELLPACK: a problem-solving environment for PDE-based applications on multicomputer platforms

 E. N. Houstis, J. R. Rice, S. Weerawarana, A. C. Catlin, P. Papachiou, K.-Y. Wang, M. Gaitatzes  
 March 1998 **ACM Transactions on Mathematical Software (TOMS)**, Volume 24 Issue 1

**Publisher:** ACM Press

Full text available:  pdf(26.30 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The article presents the software architecture and implementation of the problem-solving environment (PSE) PELLPACK for modeling physical objects described by partial differential equations (PDEs). The scope of this PSE is broad, as PELLPACK incorporates many PDE solving systems, and some of these, in turn, include several specific PDE solving methods. Its coverage for 1D, 2D, and 3D elliptic or parabolic problems is quite broad, and it handles some hyperbolic problems. Since a PSE should p ...

**Keywords:** PDE language, execution models, knowledge bases, libraries, parallel reuse methodologies, problem-solving environments, programming-in-the-large, software bus

## 8 Design and implementation of a distributed virtual machine for networked computers



Emin Gün Sirer, Robert Grimm, Arthur J. Gregory, Brian N. Bershad

December 1999 **ACM SIGOPS Operating Systems Review , Proceedings of the seventeenth ACM symposium on Operating systems principles SOSP '99**, Volume 33 Issue 5

**Publisher:** ACM Press

Full text available: pdf(1.62 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper describes the motivation, architecture and performance of a distributed virtual machine (DVM) for networked computers. DVMs rely on a distributed service architecture to meet the manageability, security and uniformity requirements of large, heterogeneous clusters of networked computers. In a DVM, system services, such as verification, security enforcement, compilation and optimization, are factored out of clients and located on powerful network servers. This partitioning of system fun ...

## 9 UFO: a personal global file system based on user-level extensions to the operating system



Albert D. Alexandrov, Maximilian Ibel, Klaus E. Schauser, Chris J. Scheiman

August 1998 **ACM Transactions on Computer Systems (TOCS)**, Volume 16 Issue 3

**Publisher:** ACM Press

Full text available: pdf(251.25 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

In this article we show how to extend a wide range of functionality of standard operation systems completely at the user level. Our approach works by intercepting selected system calls at the user level, using tracing facilities such as the /proc file system provided by many Unix operating systems. The behavior of some intercepted system calls is then modified to implement new functionality. This approach does not require any relinking or recompilation of existing applications. In fact, the ...

**Keywords:** file caching, global name space, proc file system, user-level operating system extensions

## 10 Kernel Korner

Joseph Pranevich

April 1999 **Linux Journal**

**Publisher:** Specialized Systems Consultants, Inc.

Full text available: html(18.76 KB)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

Linux 2.2 and the Frame-Buffer Console: Wondering about the new frame-buffer features in the kernel? Mr. Pranevich gives us the scoop

## 11 Distributed operating systems



Andrew S. Tanenbaum, Robbert Van Renesse

December 1985 **ACM Computing Surveys (CSUR)**, Volume 17 Issue 4

**Publisher:** ACM Press

Full text available: pdf(5.49 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Distributed operating systems have many aspects in common with centralized ones, but they also differ in certain ways. This paper is intended as an introduction to distributed operating systems, and especially to current university research about them. After a discussion of what constitutes a distributed operating system and how it is distinguished from a computer network, various key design issues are discussed. Then several

examples of current research projects are examined in some detail ...

12 Pen computing: a technology overview and a vision



André Meyer

July 1995 **ACM SIGCHI Bulletin**, Volume 27 Issue 3

**Publisher:** ACM Press

Full text available: pdf(5.14 MB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

This work gives an overview of a new technology that is attracting growing interest in public as well as in the computer industry itself. The visible difference from other technologies is in the use of a pen or pencil as the primary means of interaction between a user and a machine, picking up the familiar pen and paper interface metaphor. From this follows a set of consequences that will be analyzed and put into context with other emerging technologies and visions. Starting with a short historic ...

13 Session 5: System customization: The operating system kernel as a secure programmable machine



Dawson Engler, M. Frans Kaashoek, James O'Toole

September 1994 **Proceedings of the 6th workshop on ACM SIGOPS European workshop: Matching operating systems to application needs EW 6**

**Publisher:** ACM Press

Full text available: pdf(551.85 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Operating systems should provide only minimal embedded kernel functionality. *Exokernels* achieve this minimalist goal by presenting to applications the features supported by the underlying hardware resources. Applications customize the operating system by extending the exokernel interface. Code inspection, inlined cross-domain procedure calls, and secure languages are used to allow programmable yet safe additions to the supervisor-mode execution environment. These additions enable applicat ...

14 A framework for the assessment of operating systems for small computers



Hossein Saiedian, Munib Siddiqi

April 1996 **ACM SIGICE Bulletin**, Volume 21 Issue 4

**Publisher:** ACM Press

Full text available: pdf(1.89 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

A number of high performance operating systems are now available for small computers on different hardware platforms. These operating systems offer many advanced features formerly reserved for their workstation and minicomputer counterparts. This article surveys the most widely used of such operating systems, namely OS/2, Windows NT, Linux and Macintosh System 7.5. It provides an account on the history, design objectives and evolution of these operating systems and discusses their key features, ...

**Keywords:** CP/M, DOS, Linux, Macintosh, Microcomputers, OS/2, Operating Systems, Small Computer Systems, Windows, Windows NT

15 Is your computing environment secure?: security problems with interrupt handling mechanisms



Ping Hu, Bruce Christianson

October 1995 **ACM SIGOPS Operating Systems Review**, Volume 29 Issue 4

**Publisher:** ACM Press

Full text available: pdf(764.10 KB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

In an open distributed system, resources must be shared among various users. Security is one of the major issues in designing such a system. When a computer system is

connected to a network, it is very important to ensure that the computer has the ability to manage its local resources securely. In this position paper, we will demonstrate that current computer architectures do give malicious users ways to penetrate computer systems and hence access the system or other user's secrets which are sup ...

16 Experiences with the Amoeba distributed operating system



Andrew S. Tanenbaum, Robbert van Renesse, Hans van Staveren, Gregory J. Sharp, Sape J. Mullender

December 1990 **Communications of the ACM**, Volume 33 Issue 12

**Publisher:** ACM Press

Full text available: pdf(2.71 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The Amoeba project is a research effort aimed at understanding how to connect multiple computers in a seamless way [16, 17, 26, 27, 31]. The basic idea is to provide the users with the illusion of a single powerful timesharing system, when, in fact, the system is implemented on a collection of machines, potentially distributed among several countries. This research has led to the design and implementation of the Amoeba distributed operating system, which is being used as a prototype and veh ...

17 A framework for collaborative and distributed web-based design



Gangadhar Konduri, Anantha Chandrakasan

June 1999 **Proceedings of the 36th ACM/IEEE conference on Design automation DAC '99**

**Publisher:** ACM Press

Full text available: pdf(1.03 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

18 SCONE: using concurrent objects for low-level operating system programming



Jun-ichiro Itoh, Yasuhiko Yokote, Mario Tokoro

October 1995 **ACM SIGPLAN Notices , Proceedings of the tenth annual conference on Object-oriented programming systems, languages, and applications OOPSLA '95**, Volume 30 Issue 10

**Publisher:** ACM Press

Full text available: pdf(1.66 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper proposes a methodology for making low-level system code of operating systems be replaceable at runtime. Our approach is to use concurrent objects as a basic programming unit for low-level system programs. To realize the different need for each type of system code and to execute these concurrent objects sufficiently efficient, we use a combination of dedicated system service layers and other implementation techniques. System service layers provide the most suitable primitive operations ...

19 Operating system support for high-speed communication



Peter Druschel

September 1996 **Communications of the ACM**, Volume 39 Issue 9

**Publisher:** ACM Press

Full text available: pdf(313.01 KB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)

20 Illustrative risks to the public in the use of computer systems and related technology



Peter G. Neumann

January 1996 **ACM SIGSOFT Software Engineering Notes**, Volume 21 Issue 1



**Publisher:** ACM Press

Full text available: pdf(2.54 MB)

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IET CNF IET Conference Proceeding

IEEE STD IEEE Standard

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